smiths detection
bringing technology to life

HI-SCAN™ 7555si

HEIMANN X-RAY TECHNOLOGY

Feature Highlights

- **New X-ray generator with optimized spectrum**
- **New high resolution XADA sensor technology**
- **New HiTraX II system platform with extended scope of services**
- **High resolution image display with doubled resolution**
- **Up to 37 mm steel penetration**
- **Wire detectability up to AWG 41**

HI-SCAN 7555si is a consequent advancement of HI-SCAN 6040i, with more than 6000 installations worldwide the most successful X-ray inspection system in its class.

HI-SCAN 7555si, despite all similarities, is by far more than a conventional X-ray system with a facelift. Crucial technological innovations concerning X-ray sensor and image processing technologies were part of the R&D process.
HI-SCAN 7555si is equipped with an advanced multi-energy X-ray generator, a new generation of electronics plus a completely novel high resolution detector line. Due to this optimized technology, the system demonstrates performance rates unachieved before.

HI-SCAN 7555si produces extremely detailed X-ray images, which impress by a more than doubled number of real, physical pixels. The drastically enhanced image resolution of the scanned objects represents a decisive advantage for image evaluations in security areas.

HI-SCAN 7555si additonally has a higher tunnel opening and therefore can scan objects, whose sizes exceed standard dimensions for hand luggage in the aviation industry.

HI-SCAN 7555si - increased security by advanced technology.

Technical Data **HI-SCAN 7555si**

General Specifications

Tunnel dimensions	755 (W) x 555 (H) [mm] • 29.7" (W) x 21.9" (H)
Max. object size	750 (W) x 550 (H) [mm] • 29.5" (W) x 21.7" (H)
Conveyor height [1]	approx. 755 mm (29.7")
Conveyor speed at mains frequency 50 Hz / 60 Hz	approx. 0.2 / 0.24 [m/s]
Max. conveyor load (evenly distributed)	160 kg (352 lbs)
Resolution (wire detectability) [2]	standard: 40 AWG (0.08 mm) • typical: 41 AWG (0.07 mm)
Penetration (steel) [2]	standard: 35 mm • typical: 37 mm
ASTM 792-08 (Test 1, Test 3, Test 4)	test 1: AWG 40 [5] / test 3: 1 mm horz./vert. [5] / test 4: 34 mm [5]
X-ray dose (typical)	HI-MAT: 1.8 µSv (0.18 mrem)
Film safety	guaranteed up to ISO 1600 (33 DIN)
Duty cycle	100 %, no warm-up procedure required

X-ray Generator

Anode voltage • Cooling	160 kV cp • Hermetically sealed oil bath
Beam direction	diagonal

Image Generating System

X-ray converter	L-shaped detector line, high resolution
Grey levels stored	4096
Image presentation	B/W, color
Digital video memory	1280 x 1024 / 24 bit
Image evaluation functions	VARI-MAT, O^2, OS, HIGH electronic zoom: stepless enlargement up to 16-times
Monitor	Flat Panel LCD Monitor

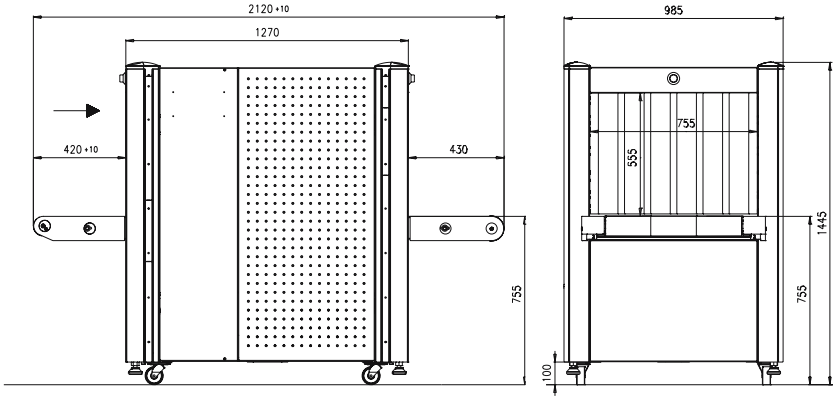
Additional Features

Features	fading-in of date/time, luggage counter, user id-number, luggage marking system (acoustic), display of operating mode, REVIEW-feature (to recall previously visible image areas), zoom overview, free programmable keys, USB 2.0 interface, stepless zoom
Options	X-ACT, HI-TIP, HI-SPOT, SEN, XPlore, IMS (image management system), Xport, Media Bay for RIDA (250 GB), CD/RW module

Installation Data

X-ray leakage	meets all applicable laws and regulations with respect to X-ray emitting devices.
CE-labelling	in compliance with directives 2004/108/EC, 2006/42/EC, 2006/95/EC
Sound pressure level	< 70 dB(A)
Operating-/ storage temperature	0° - 40°C / -20°C - +60°C
Humidity	10% - 90% (non-condensing)
Power supply [3]	standard: 230 VAC or 120 VAC +10% / -15% • 50 Hz / 60 Hz ± 3 Hz
Power consumption	approx. 0.8 kVA
Protection class system/ keyboard	IP 20 / IP 43
Dimensions • Weight [4]	2120 (L) x 985 (W) x 1445 (H) [mm] • approx. 580 kg 83.5" (L) x 38.8" (W) x 56.9" (H) • approx. 1287.7 lbs
Mechanical construction	steel construction with steel panels, mounted on rollers standard color(s): RAL 7016 (dark grey) / B11-W1 (blue)

[1] approx. values (adjustable)
[2] proprietary quality management test piece: steel step wedge, CU wires, belt speed 0.2 m/s
[3] different values optional
[4] without control desk, keyboard, monitor(s) etc.
[5] max. measurable values with ASTM 792-08 test piece



For product information, sales or service, please go to www.smithsdetection.com/locations

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